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D 18 HIGH 4X2 RK 250 E6

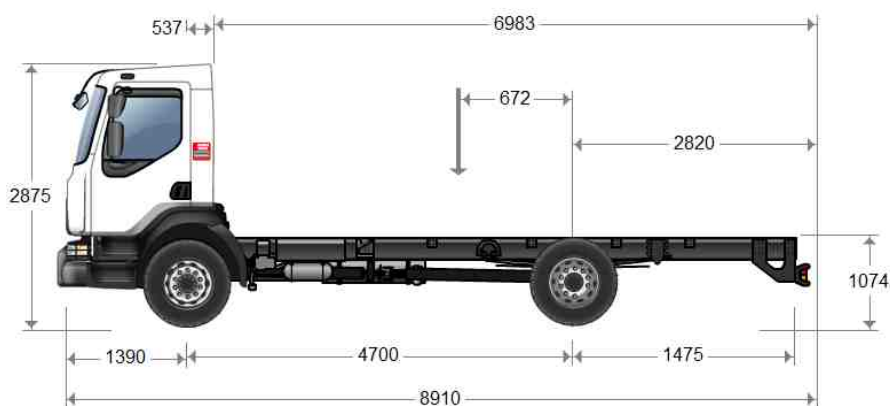
RIGID

Model code : CST_40J80868HK00

GVW 17.99 T / GTW 17.99 T

DAY CAB

REAR PARABOLIC SUSPENSION



WEIGHTS

Wheelbase		mm	3.500	3.800	4.100	4.400	4.700
Maximum Weight (registered)	Total (GVW)	Kg	17990				
Payload	(C)	Kg	12772	12678	12637	12621	12596
Kerb Weight	total	Kg	5218	5312	5353	5369	5394
Chassis cab kerb weight	Front axles (Liftable axle down)	Kg	3497	3535	3549	3540	3571
	Rear axles (Liftable axle down)	Kg	1721	1777	1804	1829	1823
Maximum Weight (registered)	Front axle 1	Kg	7100				
	rear axle 1	Kg	11500				
Maximum Weight (technical)	total (CoC: 16.1.)	Kg	18300				
	front axles (CoC: 16.2.)	Kg	7100				
	rear axles (CoC: 16.2.)	Kg	11500				

To maintain the driving comfort (lightness of steering, braking) of vehicles in all load and driving conditions once the vehicle is bodied, the following minimum front axle load(s) must be respected: 2500 kg
The weight of the vehicle is an average indicative weight of its STANDARD build, filled with urea, oil, windscreen wash liquid and coolant at 100%, fuel level at 90% and with driver (75kg).

LENGTHS

Wheelbase		mm	3.500	3.800	4.100	4.400	4.700
Body length	Min. (Wmin / BEP L105)	mm	3978	4389	4822	5244	5692
	Max. (Wmax / BEP L105)	mm	5063	5543	6023	6503	6983
Front Overhang	(H / BEP L016)	mm	1390				



Wheelbase		mm	3.500	3.800	4.100	4.400	4.700
DTI8 ENGINE	(B / BEP L102)	mm	537				
Wheelbase	(F / BEP L011)	mm	3500	3800	4100	4400	4700
Max. power: 184 kW at 2100 rpm Max. torque: 950 Nm from 900 rpm to 1700 rpm	(E / BEP L015)	mm	3500	3800	4100	4400	4700
4-cylinder in-line diesel engine - 4 valves per cylinder - Rear-mounted timing	(C / BEP L012)	mm	1310				
COMMON RAIL High-pressure direct injection 2000 bar	(D / BEP L013)	mm	6200	6500	6965	7265	7565
Bore 110 mm - stroke 135 mm - Capacity 7.7 litres	Min. (Ymin / BEP L104)	mm	432	492	552	612	672
Variable geometry turbocharger	Max. (Ymax / BEP L103)	mm	974	1068	1152	1241	1317
Exhaust gas recirculation	(Zmin / BEP L001)	mm	6316	6749	7171	7619	8065
Direction of rotation (seen from G/B end): anti-clockwise	(Zmax / BEP L001)	mm	6390	6900	7390	7900	8430
Oil capacity: 27 L, including filtration	Min. (Xmin / BEP L017)	mm	1015	1126	1259	1381	1529
Min. overall length (Z)	Max. (Xmax / BEP L017)	mm	2100	2280	2460	2640	2820
Sheet metal oil sump							
Crash test capacity: 17 litres							
Antifreeze protection: -40°C.							
EEC EURO VI pollution control (7th injector, catalytic converter, DPF, SCR)							

Reduction in engine power of 25% when vehicle emissions are above the legislative levels.
Noise level set at 82 dB(A)

OPTIONS

- ZF 9S 1110 TO

Engine torque in Nm	Engine power in kW	mm	3.500	3.800	4.100	4.400	4.700
		mm	2877				
Frame top height at the rear of the frame	Unladen (HN)	mm	2877	2876	2876	2875	2875
ENGINE EQUIPMENT	Laden (HN)	mm	2877	2876	2876	2875	2875
		mm	258				
		mm	292				
		mm	251				
		mm	1094				
		mm	908				
		mm	1076	1075	1074	1073	1074
		mm	933				
		mm	1099				
		mm	1097				
		mm	1096				

Exhaust-mounted retarder (120 kW at 2800 rpm)

Exhaust gas recycling (semi-closed circuit)
Intake air preheating cold starting device
Without engine Power Take Off.
Electronic speed limiter (90 km/h).

Wheelbase		mm	3.500	3.800	4.100	4.400	4.700
Max. cab width	(BEP W002)	mm	2400				
Frame width	Front (BEP W035)	mm	864				
	Rear (BEP W036)	mm	864				
• Automatic wheels	Rear axle 1 (V3 / BEP W003.1)	mm	2473				
• Automatic engine cut-off (3 min)	Front (V1 / BEP W013.1)	mm	1996				
• Automatic engine cut-off (5 min)		mm	1833				
• Engine rear PTO:							
• Track							
• Splined hollow shaft output (DIN 6162) (2 in BEP W012)							

Rotation: as engine
Max. torque: 600 Nm
Ratio: 4/1
Position 12 o'clock

POWER TAKE-OFFS

Wheelbase		mm	3.500	3.800	4.100	4.400	4.700
• Engine rear PTO							
Output: ISO 1646 plate. Continuous drive							
• Side engine	(BEP W034)	mm	7				
Max. torque: 600 Nm							
Ratio: 1/1	kerb to kerb	mm	6700	7150	7600	8150	8950
• Pushing	Overall (BEP W012)	mm	7350	7850	8350	8800	9600



- Gearbox PTO mounted on right hand side rear face at 15h
Rotation: as engine
Ratio: 0.93, Intermittent torque: 400 Nm
Outlet: DIN 5462 hollow shaft for flanged pump.
- Gearbox PTO mounted on right hand side rear face at 15h
Rotation: as engine
Ratio: 0.93, Intermittent torque: 600 Nm
Outlet: Plate.
- Gearbox PTO mounted on right hand side rear face at 15h
Rotation: as engine
Ratio: 0.93, Intermittent torque: 600 Nm
Outlet: DIN 5462 hollow shaft for flanged pump.
- Gearbox PTO mounted on right hand side rear face at 15h
Rotation: as engine
Ratio: 0.93, Intermittent torque: 400 Nm
Outlet: Plate.
- PTO S88 C.
Outlet : Splined hollow shaft.
Rotation : as engine
Torque : 450 Nm.
Ratios : 0.96
Position : 16h
- PTO NL/10 B 320 Nm.
Outlet : flanged.
Rotation : as engine
Torque : 320 Nm.
Ratios : 1.7
Position : 13h
- PTO NL/10 C 320 Nm.
Outlet : Splined hollow shaft.
Rotation : as engine
Torque : 320 Nm.
Ratios : 1.7
Position : 13h
- PTO NL/10 B 270 Nm.
Outlet : Flanged.
Rotation : as engine
Torque : 270 Nm.
Ratios : 2.03
Position : 13h
- Power take-off S84, 430 Nm, internal spline output
- Power take-off S81, 800 Nm, flange output
- Power take-off S81, 800 Nm, internal spline output
- Power take-off S84, 430 Nm, flange output
- PTO S88
Output: DIN 90
Direction of rotation: as engine
Torque: 450 Nm
Ratio: 0.96
Position: 16h
- PTO S88 C.
Outlet: flange.
Direction of rotation: as engine
Torque: 400 Nm
Ratio: 0.96
Position: 16h
- Additional PTO S88 Z2 C.
Output : Splined hollow shaft
Outlet : splined hollow shaft
Rotation same as engine
Torque : 450 Nm
Ratio : 1.412 (9S) - 0.962 (6S 1000)
Without gearbox mounted PTO

STEERING

Hydraulic steering box with variable step-down power assistance.
Driving on the right

AXLE

Load capacity (technical max.) Front axle: 7.1 t.

WHEELS AND TYRES

Dimension 295/80 R22.5
Profile G. MSS2/MSD2
Without spare wheel.

OPTIONS

- Profile C. HYBRID HS3/HD3
- Profile G. KMAX S HL/D
- Profile M. X MULTIWAY 3D XZE/XDE
- Profile C. HSC1/HDC1

BRAKING

Service brake:

Braking system with two independent circuits
All-disc brakes
Electronic management of air production by APM (Air Product Management)
Dryer cartridge optimised by preventive maintenance
Single cylinder air compressor 500 l/min, 360 cm³
Without rear trailer coupling.

EBS:

Anti-wheel lock braking system (ABS).
Anti-slip regulation (ASR).
Drag torque control (Torque control during downshifting).
Retarder and service brake linking
Differential engagement management (if equipped) at speeds <10 km/h (4x2)
Braking performance warning
ESC (Electronic Stability Control) trajectory control and anti-rollover system
Coupling traction test
Emergency brake assist (EBA)
Emergency brake lights (EBL)

Parking brake:

Air operated spring brake actuators on rear wheels

Brake adjustment:

Automatic brake lining slack compensation.

Emergency brake:

Ensured by independence of main device circuits



OPTIONS

- Trailer brake device
 - Electrical socket for trailer.
 - Anti-lock braking system (ABS).
- Anti-slip regulation (ASR).
Drag torque control (Torque control during downshifting).
(Disc) brake pad wear compensation
Retarder and service brake linking
Differential engagement management (if equipped) at speeds <10 km/h (4x2)
Hill Start Assist
Braking performance warning
ESC (Electronic Stability Control) trajectory control and anti-rollover system
Coupling traction test
Emergency brake assist (EBA)

CAB

Cab exterior:

Day cab
All steel Cab, electro-zinc plated and cathaphoretic paint treatment.
Cab paint colour: White ekla
technical code: 09350
Red badge
Anti-spray deflectors
Cab suspension with rubber pads on the front and mechanical on the rear
Hydraulic cab tilt.
2 heated, remote control rear view mirrors.
Rear view mirrors for bodywork from 2500 to 2600 mm wide
Fold-back front view mirror
Air intake behind cab.
Air filter clogging indicator
Front wing mudflaps
Provision for mounting external sun visor.
Tinted, laminated windscreen.
Without rear window.

OPTIONS

- Adjustable roof deflector
- External sun visor
- Heated and tinted laminated windscreen
- Rear tinted side window
- Tinted rear cab window

Cab interior:

Upper storage cupboard with net cover, 2 storage compartments (50 l) with net covers
Three sun blinds on windscreen
DTCO 4.0 digital chronotachograph
Air-suspended driver's seat with fitted seat belt.
Driver's armrest
Red seat belts
Adjustable passenger seat
Cab lighting time-delay.
2 Coat hooks on rear panel
Electrically operated door windows
Handbook in Czech.

OPTIONS

- Analog and digital DAB and DAB+ radio requiring a digital antenna (not provided)
audio playback via USB and streaming via Bluetooth 4.0 with hands-free function and steering wheel-mounted controls
- CB pre-equipment.
- Air-suspended COMFORT driver's seat, with fitted seat belt, lumbar support, heated cushion and seatback, seat depth adjustment
- Air-suspended passenger seat with seatbelt.
- Front passenger bench (2 seater) with 3-point seat belts and integral headrests.
- Passenger armrest
- Storage on engine tunnel
- Storage on engine tunnel with drawer
- Cab independent night heater air/air (2 kW)
- Air conditioning
- Smartphone mounting plate
- Adaptation: "Cylinder on clutch pedal"
- "DRIVER'S ALCO-LOCK
provide and install immobiliser alco-lock kit" adaptation
- Adjustment of "beam setting for toll chargers"
- "Air blower installation inside the cab" adaptation
- Analog and digital DAB and DAB+ radio requiring a digital antenna (not provided)
audio playback via USB and streaming via Bluetooth 4.0 with hands-free function and steering wheel-mounted controls

Steering wheel equipment:

4-spoke steering wheel adjustable for height and depth, includes cruise control controls

OPTIONS

- 4-spoke leather steering wheel adjustable for height and depth, with control for cruise control
- Analog and digital DAB and DAB+ radio requiring a digital antenna (not provided)
audio playback via USB and streaming via Bluetooth 4.0 with hands-free function and steering wheel-mounted controls
Analog radio with audio playback and streaming via Bluetooth 4.0
with hands-free function and steering wheel-mounted controls

Instrument panel:

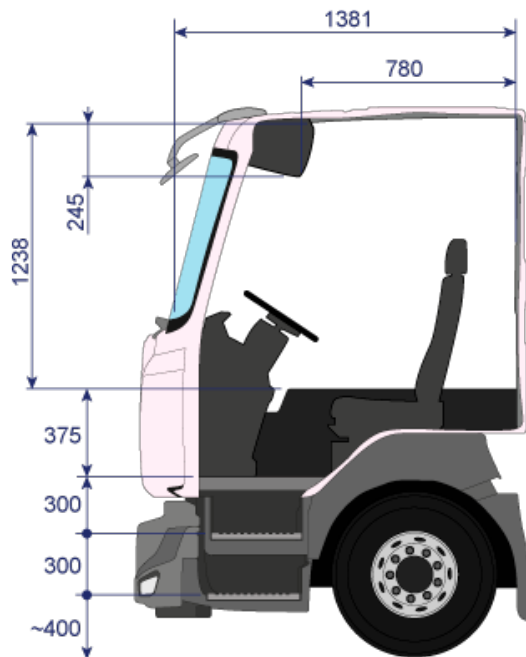
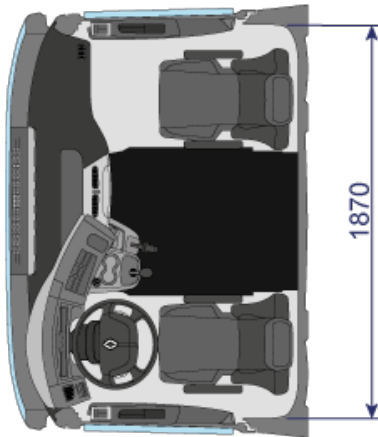
12V socket on dashboard, for accessories.
Starting inhibitor controlled by transponder key.
Folding key.
Remote control central door locking.
Speed limiter adjustable via steering wheel control (ASL)
Cruise Control with steering wheel-mounted controls

OPTIONS

- 12 V + 24 V socket on dashboard, for accessories.
- Cab volumetric alarm, immobilizer and load protection.
- "D 4x2 differential lock audible warning" adaptation



- "ONSPOT type automatic chaining system" adaptation
 - Analog and digital DAB and DAB+ radio requiring a digital antenna (not provided)
- audio playback via USB and streaming via Bluetooth 4.0 with hands-free function and steering wheel-mounted controls



ELECTRONIC EQUIPMENT:

SAE cab socket for vehicle data extraction (Optifuel Infomax).
English and Czech language display
Additional language (Slovak)

OPTIONS

- FMS Gateway fleet management interface
- Telematics provision including the TGW (Telematics GateWay): including antenna and subscription to Optifleet Map, Check and Drive services
- "Speed Signal Simulator" adaptation

ELECTRICAL EQUIPMENT

Battery capacity: 170 Ah
Batteries with level check
Battery isolation switch
Alternator : 110 amp capacity.

OPTIONS

- Maintenance-free batteries
- Battery isolation remote control
- "LED rear lights" adaptation

CHASSIS

Chassis protective paintwork, mineral grey colour
technical code: 03650
Off-road rear overhang
Reinforced removable front towing cap
Rear underrun bar with lighting on bar.
Closing cross member
One wheel chock with bracket mounted on chassis.
Lateral exhaust on left side.

OPTIONS

- Rear underrun bar with integral lights, fitted on the chassis.
- Provision for positioning a vehicle front end plate (snow plough blade support).
- Rear crossmember for towing hook on less than or equal to 3.5t GVW.
- Rear cross-member for hook higher than 3.5t GVW
- Engine air filter with easily removable cartridges.
- Two wheel chocks with bracket.

BUMPER - STEPS AND LIGHTING

3-part steel bumper



Headlamp protection grille.
Access to driving position by 2 stepwell steps.
Step lighting.
LED daytime running lights, without fog lamp

OPTIONS

- 2 orange rotating beacons
- Roof beacon pre-equipment

SUSPENSION

Front suspension

Front parabolic leaf springs.
Stabiliser bar

Rear suspension:

Parabolic rear suspension.
Telescopic shock absorbers.
Stabiliser bar

OPTIONS

- Reinforced rear asymmetrical leaf springs.
- Rear air suspension.
- 2-channel air suspension control on dash board

FUEL TANK

Plastic tank
Main fuel tank: 215 litres capacity mounted on right
Fuel heater in filter bowl.

OPTIONS

- Main fuel tank: 80 litres capacity mounted on right
- Main fuel tank: 130 litres capacity mounted on right
- Main fuel tank: 300 litres capacity mounted on right
- Main fuel tank: 2 x 215 litres capacity mounted on right
- Main fuel tank: 160 litres capacity D560 profile mounted on left
- Main fuel tank: 210 litres capacity D710 profile mounted on left
- "Diesel fuel anti-siphon" adaptation
- "Direct diesel fuel supply for ancillary equipment" adaptation

AdBlue

32-litre AdBlue tank

STANDARD EQUIPMENT

Warning triangle.
Windscreen washer bottle capacity: 8.8L

OPTIONS

- Sharp angle protection.

BODYWORK

Body mounting brackets front and rear.
Bodybuilder access through bulkhead
Provision for bodybuilder electronic box interface.

OPTIONS

- Pre-equipment plates on chassis for fitting cranes with a capacity of up to 10 T/M
- Front body mounting brackets.
- Bodywork bracket mounting holes
- Rear mounting brackets for bodywork
- Electrical provision for crane

SERVICE

Optifleet:

OPTIONS

- Pre-equipment for monthly Optifleet Check: technical data reports for fuel consumption monitoring by vehicle and by driver, activation of service on request subject to monthly subscription
- Optifleet Check: technical data reports for fuel consumption monitoring by vehicle and by driver, 1-year prepaid subscription
- Optifleet Check: technical data reports for fuel consumption monitoring by vehicle and by driver, 2-year prepaid subscription
- Optifleet Check: technical data reports for fuel consumption monitoring by vehicle and by driver, 3-year prepaid subscription
- Optifleet Check: technical data reports for fuel consumption monitoring by vehicle and by driver, 4-year prepaid subscription
- Optifleet Check: technical data reports for fuel consumption monitoring by vehicle and by driver, 5-year prepaid subscription



- Optifleet Check: technical data reports for fuel consumption monitoring by vehicle and by driver, 6-month prepaid subscription
- Pre-equipment for monthly Optifleet Drive: Monitoring of activity times and remote download of driver card data and tachograph memory, activation of service on request subject to monthly subscription
- Optifleet Drive: Monitoring of activity times and remote download of driver card data and tachograph memory, 1-year prepaid subscription
- Optifleet Drive: Monitoring of activity times and remote download of driver card data and tachograph memory, 2-year prepaid subscription
- Optifleet Drive: Monitoring of activity times and remote download of driver card data and tachograph memory, 3-year prepaid subscription
- Optifleet Drive: Monitoring of activity times and remote download of driver card data and tachograph memory, 4-year prepaid subscription
- Optifleet Drive: Monitoring of activity times and remote download of driver card data and tachograph memory, 5-year prepaid subscription
- Optifleet Drive: Monitoring of activity times and remote download of driver card data and tachograph memory, 6-month prepaid subscription
- Pre-equipment for monthly Optifleet Map: vehicle geolocation, geofencing and route analysis. Activation of service on request subject to monthly subscription
- Optifleet Map: vehicle geolocation, geofencing and route analysis, 1-year prepaid subscription
- Optifleet Map: vehicle geolocation, geofencing and route analysis, 2-year prepaid subscription
- Optifleet Map: vehicle geolocation, geofencing and route analysis, 3-year prepaid subscription
- Optifleet Map: vehicle geolocation, geofencing and route analysis, 4-year prepaid subscription
- Optifleet Map: vehicle geolocation, geofencing and route analysis, 5-year prepaid subscription
- Optifleet Map: vehicle geolocation, geofencing and route analysis, 6-month prepaid subscription
- Pre-equipment for monthly Optifleet Map+: high frequency vehicle geolocation, geofencing and route analysis. Activation of service on request subject to monthly subscription
- Optifleet Map+: vehicle geolocation, geofencing and route analysis, 1-year prepaid subscription
- Optifleet Map+: vehicle geolocation, geofencing and route analysis, 2-year prepaid subscription
- Optifleet Map+: vehicle geolocation, geofencing and route analysis, 3-year prepaid subscription
- Optifleet Map+: vehicle geolocation, geofencing and route analysis, 4-year prepaid subscription
- Optifleet Map+: vehicle geolocation, geofencing and route analysis, 5-year prepaid subscription
- Optifleet Map+: vehicle geolocation, geofencing and route analysis, 6-month prepaid subscription

PACKS

- Pack "Protect" comprising:
EBS MEDIUM with ESP
Tyre pressure gauge
Tyre inflation extension piece
Cab volumetric alarm, immobilizer and load protection.
Passenger side vision door with lower tinted window
Reversing warning buzzer, including night switch.

GEARBOX RATIOS

1	2	3	4	5	6
6.75	3.60	2.13	1.39	1.00	0.78

PERFORMANCE

Gearbox ratio	Axle ratio	Code	Final ratio	Engine rpm at max torque	Speed	Gradient in % (2)	Engine speed at 90 km/h	Governed speed in km/h (1)
1	DRIVE AXLE RATIO 3.78	1CJ52	3.780	1000	7.49	27.23		
	DRIVE AXLE RATIO 4.13	1CJ51	4.130	1000	6.85	29.98		
	DRIVE AXLE RATIO 4.50	1CJ55	4.500	1000	6.29	32.96		
	DRIVE AXLE RATIO 5.14	1CJ50	5.140	1000	5.51	38.30		
	DRIVE AXLE RATIO 6.17	1CJ32	6.170	1000	4.59	47.57		
	DRIVE AXLE RATIO 5.67	1CJ49	5.670	1000	4.99	42.95		
6	DRIVE AXLE RATIO 3.78	1CJ52	3.780				1389.01	136
	DRIVE AXLE RATIO 4.13	1CJ51	4.130				1517.62	125
	DRIVE AXLE RATIO 4.50	1CJ55	4.500				1653.58	114
	DRIVE AXLE RATIO 5.14	1CJ50	5.140				1888.76	100
	DRIVE AXLE RATIO 6.17	1CJ32	6.170				2267.24	83
	DRIVE AXLE RATIO 5.67	1CJ49	5.670				2083.51	91

(1) Speed limited electronically (except VI < or = 12t, where special regulations apply)
(2) Slope calculated in %, varies according to ground adhesion

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